

Pre-Lab Exercise for *Simple Circuits*

1. In the first circuit studied in this lab, I_1 is the current in ammeter A_1 and I_2 is the current in ammeter A_2 , we predict that

- (a) $I_1 > I_2$ (b) $I_1 < I_2$ (c) $I_2 = 0$ (d) $I_1 = 0$ (e) $I_1 = I_2$

2. For the circuit shown on page 3 of the laboratory write-up, the voltage V_{ef} should be

- (a) positive. (b) negative. (c) zero.

3. State Kirchhoff's second (loop) rule.

4. Briefly describe Part II of the lab.

5. In a standard flashlight there are two D cell batteries connected in _____.

6. Briefly describe Part IV of the lab.

7. In Part V of the lab, the voltmeter measures the voltage across which device?

8. Briefly describe the circuits and experiments associated with Part VI of the lab.

A.

B.

C.